GoldStar

VHS TV/VCR

OWNER'S MANUAL

Before connecting, operating or adjusting this product, please read this instruction booklet carefully and completely.

GCV1324M
GCV1924M

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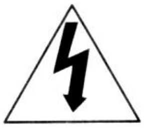
CAUTION/SAFETY PRECAUTIONS

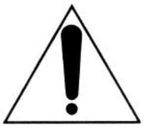


This symbol should alert the user to the presence of "dangerous voltage" inside the product that might cause harm or electric shock.

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK. DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



This symbol should alert the user to important instructions in the literature.

CAUTION : Unauthorized changes or modifications by the user could void the user's authority to operate the equipment.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

SAFETY PRECAUTIONS

POWER SUPPLY: This set operates on 120V 60Hz, AC power only. Plug the AC power cord of the switched off set into the nearest AC power outlet.
Please consult your dealer before connecting your set, if you do not know the AC voltage in your area, as incorrect voltage might damage your set.
Never connect the TV to other than the specified voltage such as 50Hz or to direct current.

INSTALLATION: This set is designed to operate only from the power source indicated on the set. Care should be exercised in not exposing your unit to any unnecessary jarring, moisture, dust, direct sun light or heat source.
Select a place for this set so as to minimize the length of antenna lead and power cord.
Allow a space between the set and wall so that the chassis components are properly ventilated. Do not cover ventilation slots on the top or back of the set or place the set on any soft material which could affect ventilation at bottom of the set.

POLARIZED PLUG: This television set is equipped with a polarized plug (a plug having one blade wider than the other.)
This plug will fit into the power outlet only one way. If you are unable to insert the plug fully into the outlet, try reversing the plug. Do not defeat the safety feature of the plug.

SERVICE: Do not attempt to service this television set yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

FEATURES

Welcome to Goldstar. To fully enjoy all the features and functions of your new TV/VCR, we recommend you read this instruction booklet carefully and completely.

THIS VIDEO CASSETTE RECORDER USES THE VHS STANDARD. FOR PROPER OPERATION, USE ONLY A VHS TYPE VIDEO CASSETTE.

VHS High Quality technology is incorporated in VCR's marked "HQ".
This unit is compatible with conventional VHS VCR'S.

- TELEVISION AND VCR IN ONE SET
- 181 CHANNEL TUNING CAPABILITY
- 8 PROGRAM/1 YEAR PROGRAMMABILITY
- ON-SCREEN PROGRAM
- ON-SCREEN FUNCTION DISPLAY
- FULL-FUNCTION INFRARED REMOTE CONTROL
- QUICK START RECORDING (QSR) WITH STAND-BY
- AUTO POWER AND PLAYBACK FUNCTIONS
- RECORD/PLAY/VISUAL SEARCH IN 3 SPEEDS (SP, LP, EP)
- PICTURE SEARCH LOCK MODE
- PAUSE FUNCTIONS IN 3 SPEEDS
- REMOTE CONTROL TRACKING ADJUSTMENT
- VHS INDEX SEARCH SYSTEM (VISS)
- AUTO HEAD CLEANER
- REAL TIME COUNTER, TAPE REMAINING TIME
- TV MONITOR FUNCTION
- AUTO POWER SHUT-OFF
- CAPTION/TEXT FUNCTION

WARNING:
Unauthorized recording of copyrighted programs, films, video tapes and other materials may infringe on the right of copyright owners and be contrary to copyright laws.

ABOUT YOUR NEW VIEWMAX

You have purchased a product that is the leader in a brand new category of products, the TV/VCR. Your GoldStar ViewMax TV/VCR is a one-piece unit that combines a color television with a VHS video cassette recorder. Gone is the confusion and wariness associated with connecting a VCR to a television-it's already done for you. No messy wires to untangle, just attach the antenna to receive TV reception.

REGISTRATION/PURCHASE INFORMATION

The serial number and model number are found on the back of this unit.
These numbers are unique to this unit.
You should record this information here and retain this guide as a permanent record of your purchase.
Please retain your purchase receipt as your proof of purchase.

Date of Purchase ____________________

Dealer Purchased From ____________________

Dealer Address ____________________

____

Dealer Phone No. ____________________

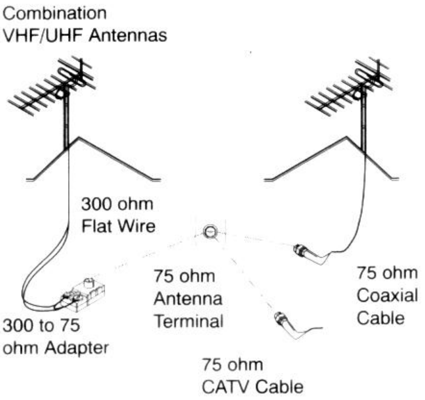
Model No. ____________________

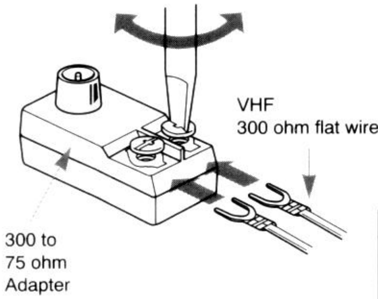
Serial No. ____________________

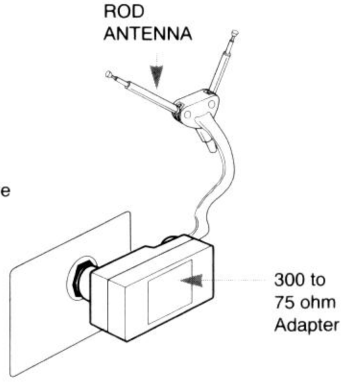
ANTENNA CONNECTIONS

INDOOR ANTENNA

1. Insert the rod antenna into the fixing hole located on the upper side of the set.
   Connect the 300 ohm flat wire to the 300 to 75 ohm antenna adapter.
2. Connect the 300 to 75 ohm adapter to the 75 ohm jack.


Combination
VHF/UHF Antennas
300 ohm
Flat Wire
75 ohm
Antenna
Terminal
75 ohm
Coaxial
Cable
300 to 75
ohm Adapter
75 ohm
CATV Cable


VHF
300 ohm flat wire
300 to
75 ohm
Adapter


ROD
ANTENNA
300 to
75 ohm
Adapter

OUTDOOR ANTENNAS

Outdoor antennas are subject to weathering effects that reduce the signal quality. You should inspect the antenna and lead-in wiring before connecting you TV/VCR. Any Service Center can explain the various outdoor antennas available to you.

- **Combination VHF/UHF Antennas**

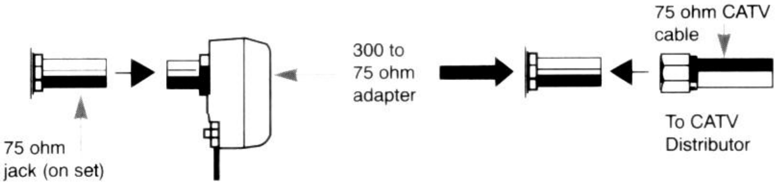
- **300 OHM FLAT WIRE**
  1. Connect the 300 ohm flat wire to screws on the 300 ohm to 75 ohm adapter.
  2. Push end of 300 ohm to 75 ohm adapter into 75 ohm antenna terminal.

- **75 OHM COAXIAL CABLE**
  1. Connect the 75 ohm coaxial cable directly to the 75 ohm antenna terminal.

CATV CABLE CONNECTION

If you subscribe to a CATV system, change the antenna connection as described below.

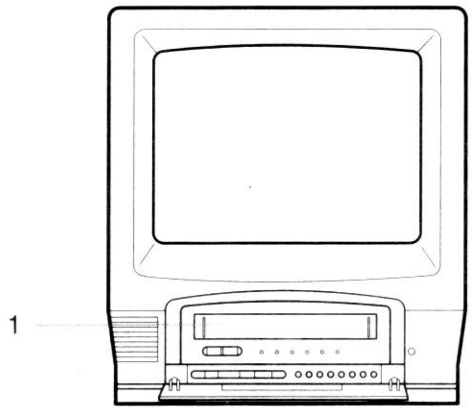
1. Remove the 300 to 75 ohm adapter or the cable from the set if attached.
2. Connect the CATV cable (75 ohm coaxial cable) to the 75 ohm jack located on the antenna terminal of the set.


75 ohm CATV
cable
300 to
75 ohm
adapter
75 ohm
jack (on set)
To CATV
Distributor

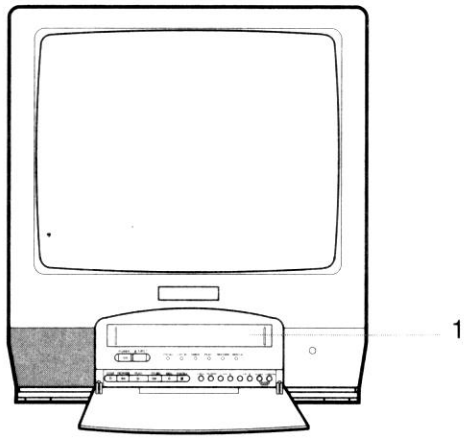
NOTE TO CATV SYSTEM INSTALLER:
This reminder is provided to call the CATV system installer's attention to Section 820-40 of the NEC which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building as close to the point of cable entry as practical.

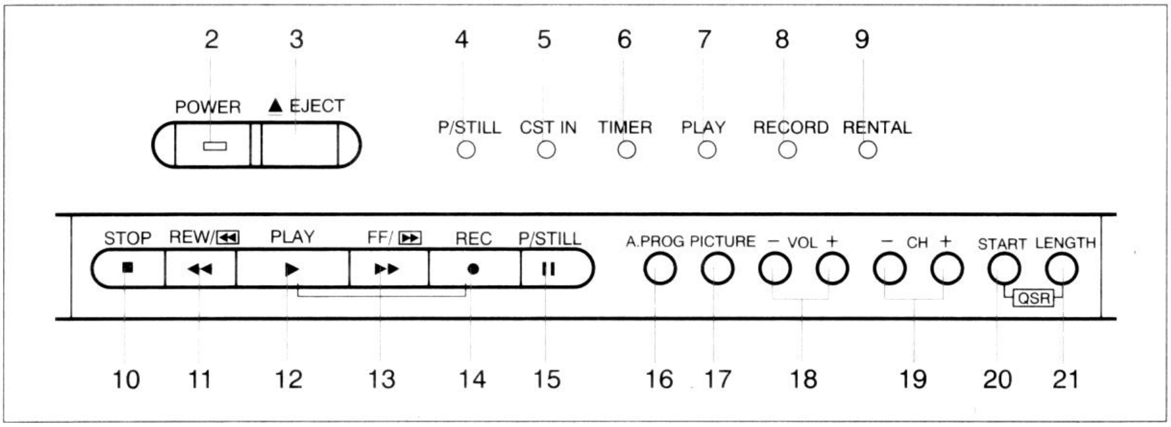
CONTROL LOCATIONS

GCV1324M



GCV1924M




2
3
4
5
6
7
8
9
POWER
▲ EJECT
P/STILL
CST IN
TIMER
PLAY
RECORD
RENTAL
STOP
REW/◀◀
PLAY
FF/▶▶
REC
P/STILL
A.PROG
PICTURE
– VOL +
– CH +
START
LENGTH
QSR
10
11
12
13
14
15
16
17
18
19
20
21

CONTROL DESCRIPTIONS

1. **CASSETTE COMPARTMENT**
   Load the video cassette tape here.

2. **POWER BUTTON**
   This button is used to operate the set.
   Press this button, and turn the set on.
   (Power button illuminates)
   Press again, and turn the set off.
   In case this television is turned off in the AV mode, when power is resumed, it will still be in the AV mode.

   NOTE: AUTO POWER ON SYSTEM
   The power is turned on automatically when a cassette is loaded. If you load the cassette without the safety tab in place, the tape will begin automatically. (FULL AUTO PLAY)

3. **EJECT BUTTON**
   Press this button to remove the cassette tape.

4. **P/STILL INDICATOR**
   This indicator appears when the **PAUSE /STILL** button is pressed.

5. **CASSETTE-IN INDICATOR**
   Lights when a cassette is loaded in the set.

6. **TIMER STAND-BY INDICATOR**
   Lights when a program is set and the TV/VCR is off.

7. **PLAY INDICATOR**
   Shows current VCR operation.

8. **RECORD INDICATOR**
   Lights when the unit is in the recording mode.

9. **RENTAL POSITION INDICATOR**
   Lights when the **RENTAL POSITION ON** is selected.

10. **STOP BUTTON**
    Press this button to stop the tape.

11. **REWIND/REVIEW BUTTON**
    Rewinds when the tape is stopped.
    Reviews when the tape is playing.

12. **PLAY BUTTON**
    Press this button to playback recorded video cassette tapes.
    The "PLAY" indicator will light up when playback starts.

13. **FAST FORWARD/CUE BUTTON**
    Fast Forwards when the tape is stopped, cues fast picture search when the tape is playing.

14. **RECORD BUTTON**
    Press both the **RECORD** and **PLAY** buttons at the same time to start recording.
    REC will appear on the TV screen and the RECORD indicator will light.

15. **PAUSE/STILL BUTTON**
    Press once to pause the recording or show still frame while playing. Press again to resume recording or playback.

16. **AUTO PROGRAM BUTTON**
    Locates all viewable channels automatically.

17. **PICTURE BUTTON**
    Used to adjust picture quality.

18. **VOLUME UP(+)/DOWN(-) BUTTONS**

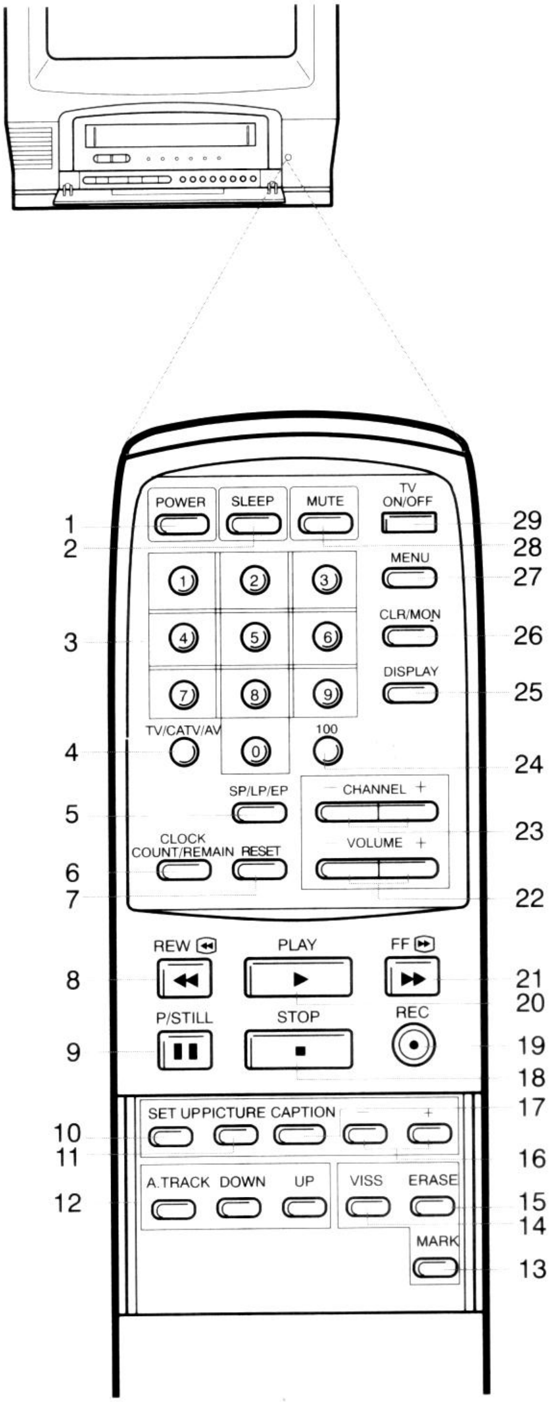
19. **CHANNEL UP(+)/DOWN(-) BUTTONS**

20. **QSR START BUTTON**
    Used to select the QSR start time setting for one button immediate recording.

21. **QSR LENGTH BUTTON**
    Used to select the QSR recording length.

REMOTE CONTROL OPERATION

The remote control unit is designed to operate within the range indicated in the diagram.
The remote control unit will not function properly if strong light strikes the sensor window or if there are obstacles between the remote control unit and the set.


1
2
3
4
5
6
7
8
9
10
11
12
POWER
SLEEP
MUTE
TV ON/OFF
MENU
1
2
3
4
5
6
7
8
9
0
CLR/MON
DISPLAY
TV/CATV/AV
100
SP/LP/EP
CHANNEL
VOLUME
CLOCK COUNT/REMAIN
RESET
REW
PLAY
FF
P/STILL
STOP
REC
SET UP
PICTURE
CAPTION
A.TRACK
DOWN
UP
VISS
ERASE
MARK
29
28
27
26
25
24
23
22
21
20
19
18
17
16
15
14
13

1. **POWER BUTTON**

2. **SLEEP BUTTON**
   Sets the sleep timer.

3. **NUMERICAL BUTTONS**
   Select any channel by pressing two buttons. For example, press **0** and **8** for channel 8.
   The number buttons are also used for setting the clock and programming the timer.

4. **TV/CATV/AV BUTTON**
   Selects TV, CATV or AV mode.

5. **TAPE SPEED BUTTON (SP/LP/EP)**
   Changes recording speed.
   Playback speed is set automatically.

6. **CLOCK/COUNT/REMAIN BUTTON**
   Press to switch between time, counter and tape remaining displays.

7. **RESET BUTTON**
   Resets the tape counter .

8. **REWIND/REVIEW BUTTON**

9. **PAUSE/STILL BUTTON**

10. **SET-UP BUTTON**
    Shows Set Up menu on-screen.

11. **PICTURE BUTTON**

12. **AUTO TRACKING BUTTON**
    If tracking is adjusted manually, auto tracking will not function until this button is pressed.

    If there is some picture noise and streaks, adjust the TRACKING control by using **UP/DOWN** buttons.

13. MARK BUTTON
Puts a VISS index mark on a tape during recording or playback.

14. VISS BUTTON
Selects the VISS (Video Index Search System) mode.

15. ERASE BUTTON
To erase a **VISS** mark.

16. +/- BUTTONS
Used to adjust menu or caption settings.

17. CAPTION BUTTON

18. STOP BUTTON

19. RECORD BUTTON
Press the **REC** button to start recording.

20. PLAY BUTTON

21. FAST FORWARD/CUE BUTTON

22. VOLUME UP(+)/DOWN(-) BUTTONS

23. CHANNEL UP(+)/DOWN(-) BUTTONS

24. 100 BUTTON
Used to select channels when in CATV mode. Press **100**, **2** and **3** in this order to select channel 123.

25. DISPLAY BUTTON
Displays the set operation mode, tape counter, channel number, date, clock and tape speed.

26. CLEAR/MONITOR BUTTON
CLEAR... Press to erase the last digit, to go back during the data entry, or to cancel a program recording during Program Review.

MONITOR... Press to view a TV program during playback. Press again to return to playback.

27. MENU BUTTON
Shows on-screen programming menus.

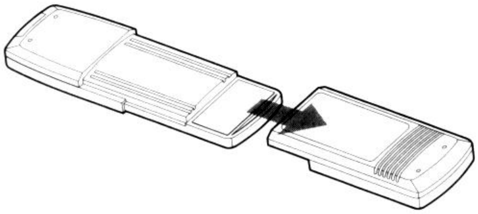
28. MUTE BUTTON

29. TV ON/OFF BUTTON
Turns the TV ON/OFF, independent of the VCR.

BATTERY

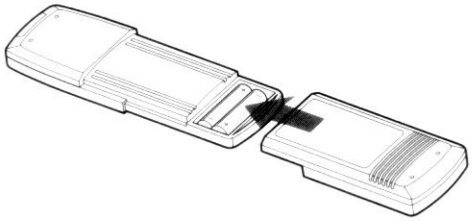
The remote control is powered by batteries. For correct polarity, match the + and - ends of the batteries to the diagrams.

1. Remove the cover.

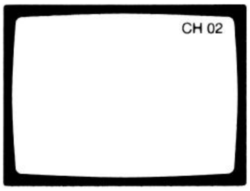


2. Insert new batteries.

3. Replace the cover.



TV OPERATION

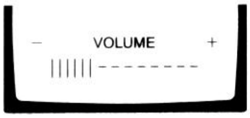


1. POWER ON

Press the **POWER** button to turn the set ON/OFF.
NOTE: If you turn off in VIDEO mode, the TV will turn on in the VIDEO mode.

2. VOLUME UP(+)/DOWN(-) BUTTONS

To increase the volume, press the **VOLUME UP(+)** button.
To decrease the volume, press the **VOLUME DOWN(-)** button.

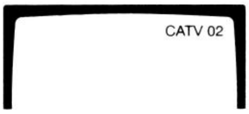


If you press the **MUTE** button to mute the sound, the vertical bar color is changed to red.
To obtain the former volume level, press the **MUTE** button again or the **VOLUME UP(+)/DOWN(-)** buttons.

3. TV/CATV/AV BUTTON

Before selecting your desired channel, check the status of the TV/CATV/AV mode by pressing the **TV/CATV/AV** button on the Remote Control.

NORMAL TV
RECEPTION MODE



CABLE TV
RECEPTION MODE

VIDEO
RECEPTION MODE

4. CHANNEL SELECTION

Select a channel by using the **CHANNEL UP(+)/DOWN(-)** buttons or the numerical buttons **(0-9)**. The Channel Memory enables your TV to stop on the channels that are programmed into the memory when you use the **CHANNEL UP(+)** or **DOWN(-)** buttons.
The quickest way to program the TV memory is to follow the AUTO PROGRAM procedure, covered in the next section.

TV OPERATION

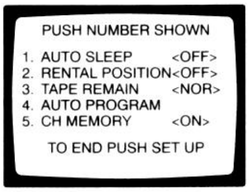
■ AUTO CHANNEL PROGRAMMING

USING THE TV SET

1) Select either the TV or CATV mode.
2) Press the **A.PRO**(Auto Program) button on the TV set. CHANNEL PROGRAMMING will start, memorizing active channels and skipping inactive channels.

USING THE REMOTE CONTROL

1) Select either the TV or CATV mode.
2) Press the **SET UP** button.
3) Press **4** and CHANNEL PROGRAMMING will start, memorizing active channels and skipping inactive channels.



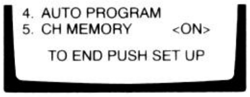
PUSH NUMBER SHOWN

1. AUTO SLEEP <OFF>
2. RENTAL POSITION<OFF>
3. TAPE REMAIN <NOR>
4. AUTO PROGRAM
5. CH MEMORY <ON>

TO END PUSH SET UP

■ MANUAL CH ADD or ERASE

1. Press the **SET UP** button.
2. Press **5** to add or erase the current channel.

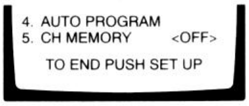


4. AUTO PROGRAM
5. CH MEMORY <ON>

TO END PUSH SET UP

MEMORIZED CHANNEL

↕



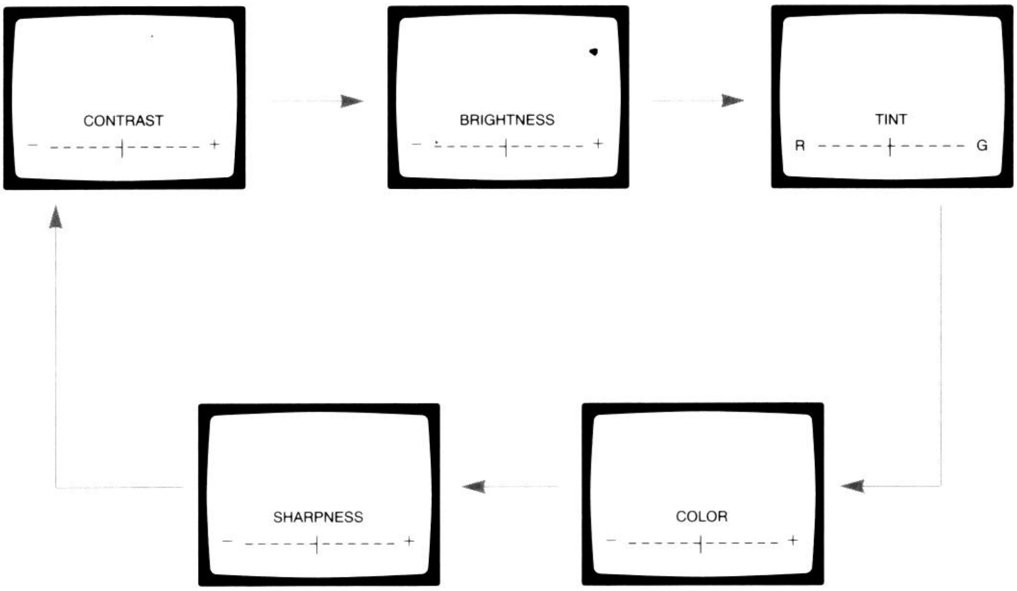
4. AUTO PROGRAM
5. CH MEMORY <OFF>

TO END PUSH SET UP

NON MEMORIZED CHANNEL

5. PICTURE ADJUSTMENT

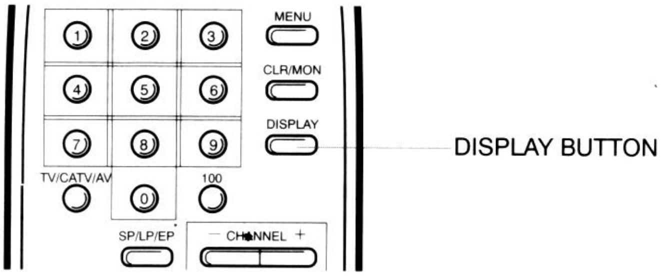
❶ Press the **PICTURE** button continuously until the desired control is displayed.
❷ Press the **VOLUME UP(+)/DOWN(-)** buttons to adjust levels.

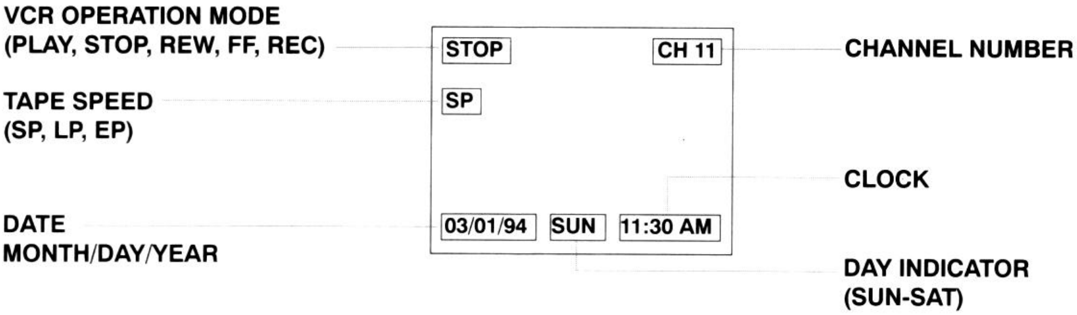


Control Adjustment		Control Button	
		–	+
CONTRAST	To adjust picture contrast	Darker	Lighter
BRIGHTNESS	To adjust picture brightness	Darker	Brighter
TINT	To adjust flesh tone tints	Redish	Greenish
COLOR	To adjust color intensity	Lighter	Deeper
SHARPNESS	To adjust picture sharpness	Softer	Sharper

TV OPERATION

6. ON SCREEN FUNCTION DISPLAY


MENU
CLR/MON
DISPLAY
TV/CATV/AV
100
SP/LP/EP
− CHANNEL +
DISPLAY BUTTON


VCR OPERATION MODE
(PLAY, STOP, REW, FF, REC)
TAPE SPEED
(SP, LP, EP)
DATE
MONTH/DAY/YEAR
STOP
CH 11
SP
03/01/94
SUN
11:30 AM
CHANNEL NUMBER
CLOCK
DAY INDICATOR
(SUN-SAT)

- The on-screen display will disappear after 5 seconds and not be recorded.
- DATE, DAY INDICATOR, CLOCK will be displayed only after you have set the clock.

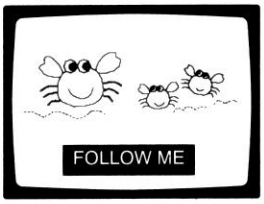
CLOSED CAPTION FUNCTION

Closed captioning is a process by which the audio portion of a television program is converted into written words, which then appear on the television screen in a form similar to English subtitles. Closed captions allow viewers to read the dialogue and narration of television programs. Caption signals encoded from a TV station are overlapped among gaps in the TV transmission, and then are converted into English via a decoder.

CAPTIONS

Captions are the subtitles of the dialogue and narration of television programs. For prerecorded programs, program dialogue can be arranged into captions in advance. It's possible to caption a live program by using a process called "real-time captioning", which creates captions instantly. Real-time captioning is normally done by professional reporters using a machine shorthand system and a computer for translation into English.

Captioning is an effective system for hearing-impaired, and it can also aid in teaching language skills.



- **The picture at left shows a typical caption.**

Take note of following before using captions

Caption signals are secondary digital signals overlapped among the primary TV signals. Because they are secondary, caption reception can be poor in the following cases.

1 Poor reception conditions are encountered.

- **IGNITION:**

  Picture may flutter, drift, suffer from black spots or horizontal streaking. Usually caused by interference from automobile ignition system, neon lamps, electrical drills and other electrical appliances.

- **GHOSTS:**
  Ghosts are caused when the TV signal splits and follows two paths. One is the direct path and the other is reflected from tall buildings, hills or some other objects. Changing the direction or position of the antenna may improve the reception.

- **SNOW:**
  If your receiver is located at the fringe area of a television-station where the signal is weak, your picture may be marred by the appearance of small dots. It may be necessary to install a special antenna to improve the picture.

2 An old, bad or illegally recorded tape is played.

3 Strong, random signals from a car or plane interfere with the TV signal.

4 The signal from the antenna is weak.

5 Closed captioning can only be used when the T.V. station or other video source is delivering the caption information.
If no caption appears, it is most likely because there is no caption signal.

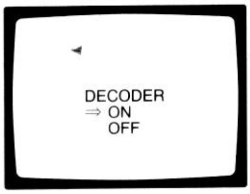
In order to properly view captioning, please be aware of the following.

Captioning may be received from one source at a time.
If both your T.V. and VCR have captioning, turn one caption decoder off.

Operating the caption

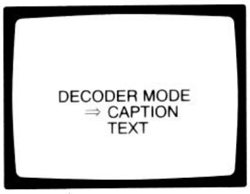
To use captioning, follow the procedures below.

Using the remote control

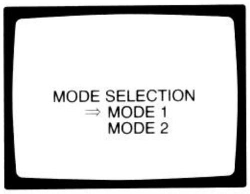


1. Press the **CAPTION** button to display the **DECODER**. Press +/- button to select **ON**.

   NOTE: The arrowhead indicates the selected mode.



2. Press the **CAPTION** button until the **DECODER MODE** is displayed. Press +/- to select **CAPTION**.



3. Press the **CAPTION** button until the **MODE SELECTION** is displayed. Press +/- to select the **MODE 1** or **MODE 2**.

NOTES:

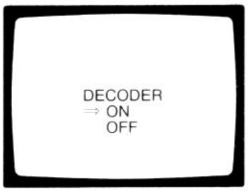
- TV stations can transmit two different caption services simultaneously, each on its own separate MODE setting.
- To turn off captioning, press the **CAPTION** button repeatedly until you see the **ON/OFF** choices. Select **OFF** by pressing the +/-.
- The set is programmed to always return to **DECODER OFF** mode when the power cord has been newly plugged in.

TEXT

Text services give a wide variety of information on all kind of subjects (ex. captioned program lists, weather forecasts, stock exchange topics, news for the hearing-impaired, general wire-service news etc.) through the full TV screen.
But not all stations offer text services, even though they might offer captioning.

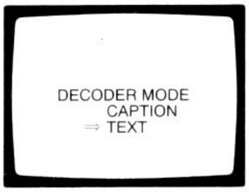
Operating the text

To use text, follow the procedures below.

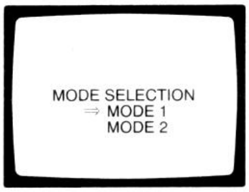


1. Press the **CAPTION** button to display the **DECODER**.
   Press the +/- to select **ON**.

   NOTE: The arrowhead indicates the selected mode.



2. Press the **CAPTION** button again to select the **DECODER MODE**. Press +/- to select **TEXT**.



3. Press the **CAPTION** button once again and then +/- to select the **MODE 1** or **MODE 2**.

NOTES:

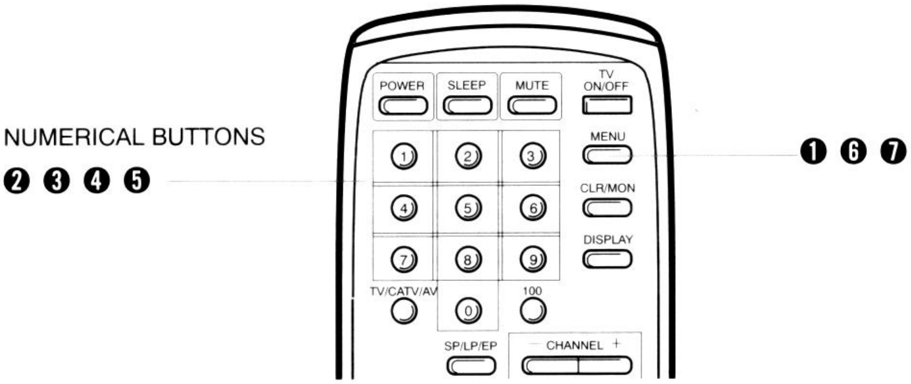
- TV stations can transmit two different text services simultaneously, each on its own separate MODE setting.
- To turn off the text, press the **CAPTION** button repeatedly until you see the **ON/OFF** choices. Select the **OFF** by pressing +/-.
- The set is programmed to always return to **CAPTION** mode when the tape is PLAYBACK mode or the power is turned back on.
- If no text information is available at the time, an empty black box will appear on the TV screen.

SETTING THE CLOCK

Things to know before starting

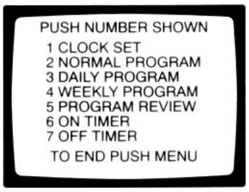
- The clock uses the 12-hour system.
- The buttons for setting the clock are on the Remote Control.
- If you press a wrong digit, press the **CLEAR** button repeatedly until the incorrect digit flashes, then enter the correct digit.
- While you are setting the clock, the "MENU" display on the TV screen will prompt you for the information step by step.
- If you input an illogical time or date (13th month for example) **?** will appear on the TV screen. (It will not enter the memory)
- To set the programmable ON/OFF timer set the clock correctly.
- Always press **0** before single digit minutes, hours, days and months.

PARAGRAPH REFERENCES


NUMERICAL BUTTONS
❷ ❸ ❹ ❺
❶ ❻ ❼
POWER
SLEEP
MUTE
TV ON/OFF
MENU
CLR/MON
DISPLAY
1
2
3
4
5
6
7
8
9
TV/CATV/AV
0
100
SP/LP/EP
– CHANNEL +

---

❶ Press the **MENU** button on the Remote Control.
The MENU, as illustrated, will appear on the TV screen.

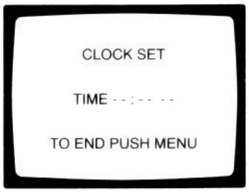


PUSH NUMBER SHOWN
1 CLOCK SET
2 NORMAL PROGRAM
3 DAILY PROGRAM
4 WEEKLY PROGRAM
5 PROGRAM REVIEW
6 ON TIMER
7 OFF TIMER
TO END PUSH MENU

ORIGINAL MENU

---

❷ Press **1** button to set the clock.
The display prompts you to set the hour by flashing the next required number.



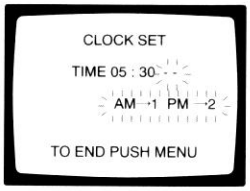
CLOCK SET

TIME --:-- --

TO END PUSH MENU

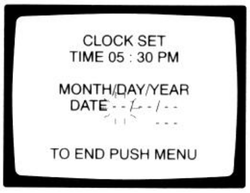
SETTING THE CLOCK

❸ Set the hour by pressing two number buttons and two more for the minute (for example, **05 30** for **5:30**).
The display prompts you to select **AM** or **PM**.



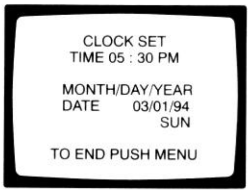
CLOCK SET
TIME 05 : 30 - -
AM→1 PM→2
TO END PUSH MENU

❹ Press **1** for **AM** or **2** for **PM**. (for example, **2** for **PM**).
The display flashes and prompts you to set the date.



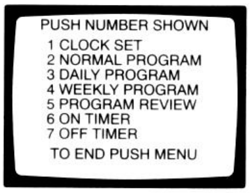
CLOCK SET
TIME 05 : 30 PM
MONTH/DAY/YEAR
DATE - - / - - / - -
TO END PUSH MENU

❺ Set the date by pressing six digits in order of month, day and year (for example, **03 01 94**, for March 1, 1994). The day of the week will appear when you have entered all six digits for the date.



CLOCK SET
TIME 05 : 30 PM
MONTH/DAY/YEAR
DATE 03/01/94
SUN
TO END PUSH MENU

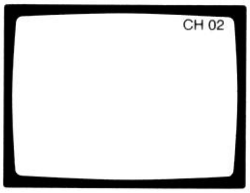
❻ Press the **MENU** button to start the clock.
The display resumes the original menu.



PUSH NUMBER SHOWN
1 CLOCK SET
2 NORMAL PROGRAM
3 DAILY PROGRAM
4 WEEKLY PROGRAM
5 PROGRAM REVIEW
6 ON TIMER
7 OFF TIMER
TO END PUSH MENU

❼ Press the **MENU** button once again to return to the TV screen.

NOTE: Clock memory will clear if left without power for 10 minutes.

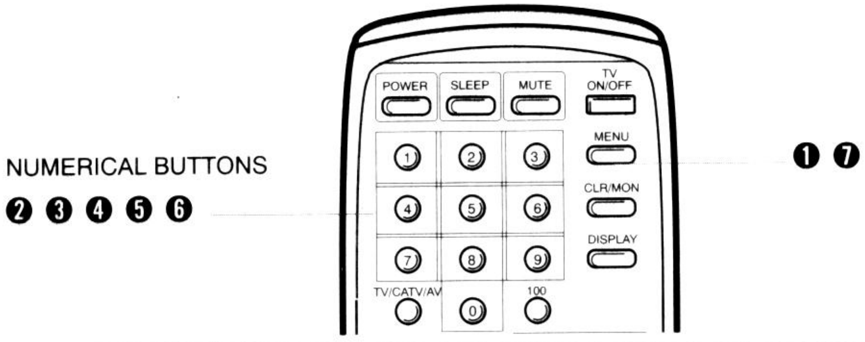


CH 02

SETTING THE ON TIMER

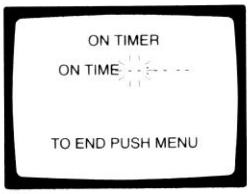
The ON TIMER is used to automatically turn your TV on at a prescribed time and channel. The ON TIMER can operate only when the clock is set.

PARAGRAPH REFERENCES



❶ Press the **MENU** button to display the function menu.

❷ Press **6** to set the **ON TIMER**.

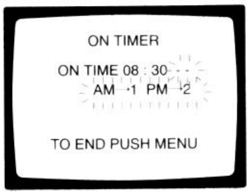


ON TIMER

ON TIME --:-- --

TO END PUSH MENU

❸ Set the hour by pressing two number buttons and two more for the minute (for example **08 30** for **8:30**)
The display prompts you to select **AM** or **PM**.

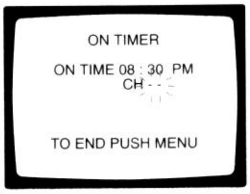


ON TIMER

ON TIME 08 : 30 --
AM 1 PM 2

TO END PUSH MENU

❹ Press **1** for **AM** or **2** for **PM** (for example, **2** for **PM**).
The display appears and prompts you to set the channel.

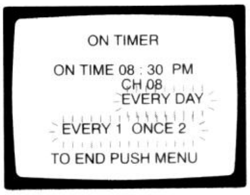


ON TIMER

ON TIME 08 : 30 PM
CH --

TO END PUSH MENU

❺ Select the channel by pressing two digits (for example, **0 8** for channel 8).
The display flashes and prompts you to set the recording frequency, **ONCE** or **EVERY DAY**.

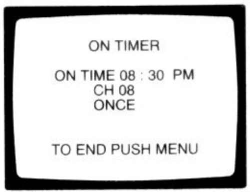


ON TIMER

ON TIME 08 : 30 PM
CH 08
EVERY DAY

EVERY 1 ONCE 2
TO END PUSH MENU

❻ Press **1** for **EVERY** or **2** for **ONCE** (for example, **2** for **ONCE**).



ON TIMER

ON TIME 08 : 30 PM
CH 08
ONCE

TO END PUSH MENU

SETTING THE ON TIMER

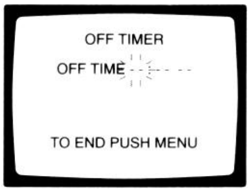
❼ Press the **MENU** button to return to the original menu.
Press the **MENU** button once again to return to the TV screen.

SETTING THE OFF TIMER

The OFF TIMER is used to automatically turn your TV off at a prescribed time.
The OFF TIMER can operate only when the clock is set.

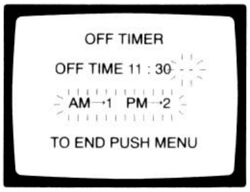
❶ Press the **MENU** button to display the function menu.

❷ Press **7** to set the **OFF TIMER**.



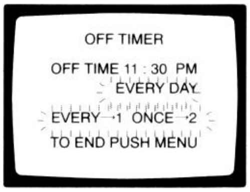
OFF TIMER
OFF TIME - - : - -
TO END PUSH MENU

❸ Set the hour by pressing two number buttons and two more for the minute (for example **11 30** for **11:30**).
The display prompts you to select **AM** or **PM**.



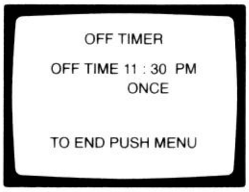
OFF TIMER
OFF TIME 11 : 30 - -
AM→1 PM→2
TO END PUSH MENU

❹ Press **1** for **AM** or **2** for **PM** (for example, **2** for **PM**). The display flashes and prompts you to set the **ONCE** or **EVERY DAY**.



OFF TIMER
OFF TIME 11 : 30 PM
EVERY DAY
EVERY→1 ONCE→2
TO END PUSH MENU

❺ Press **1** for **EVERY** or **2** for **ONCE** (for example, **2** for **ONCE**).



OFF TIMER
OFF TIME 11 : 30 PM
ONCE
TO END PUSH MENU

❻ Press the **MENU** button to return to the original menu.
Press the **MENU** button once again to return to the TV screen.

NOTES:

- If you press a wrong digit, press the **CLR/MON**(CLEAR) button repeatedly until the incorrect digit flashes and enter the correct digit.
- If you input an illogical time or date, **?** will appear on the TV screen.
- To cancel the programmable timer (ON/OFF TIMER), press the **CLR/MON**(CLEAR) button at the first hour digit.

SETTING SLEEP TIMER

The sleep timer allows you to program the TV to turn off automatically after a certain amount of time. Press the **SLEEP** button on the Remote Control.

The on-screen display will show **90** minutes (maximum sleep time).
The time will decrease each time the **SLEEP** button is pressed while the sleep time is displayed on-screen.

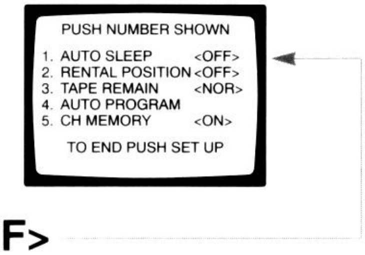
If you set sleep time for 0 **(SLEEP 00)**, sleep mode is erased. The minimum sleep time you can set is 5 minutes. If the **SLEEP** button is not pressed within 7 seconds, the on-screen display will automatically disappear. To check the sleep timer setting, press the **SLEEP** button.

The on-screen display will show the remaining sleep time.
You can adjust SLEEP time again while the SLEEP time is still on-screen.

AUTO SLEEP FUNCTION

In the AUTO SLEEP ON state, the TV will automatically turn off after 10 minutes when there are no broadcasts. But if the VCR is operating the AUTO SLEEP does not function.

1. Press the **SET UP** button.
   The on-screen display will appear.



```
      PUSH NUMBER SHOWN
1. AUTO SLEEP        <OFF>
2. RENTAL POSITION <OFF>
3. TAPE REMAIN       <NOR>
4. AUTO PROGRAM
5. CH MEMORY         <ON>
     TO END PUSH SET UP
```

2. Press **1** to turn **AUTO SLEEP OFF** or **ON**.

<OFF>

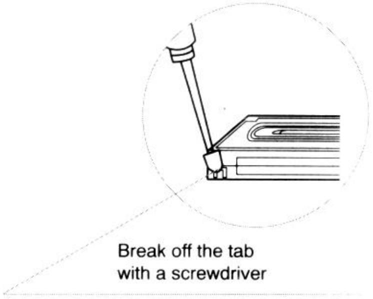
↕

<ON>

PLAYBACK

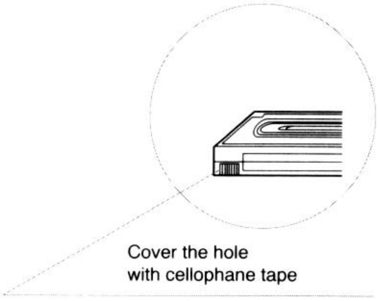
NOTE: ACCIDENTAL ERASURE PREVENTION

- To prevent accidental erasure



Break off the tab
with a screwdriver

- To record again



Cover the hole
with cellophane tape

Refer to the instructions included with cassette for more information.

AUTO PLAYBACK FUNCTION

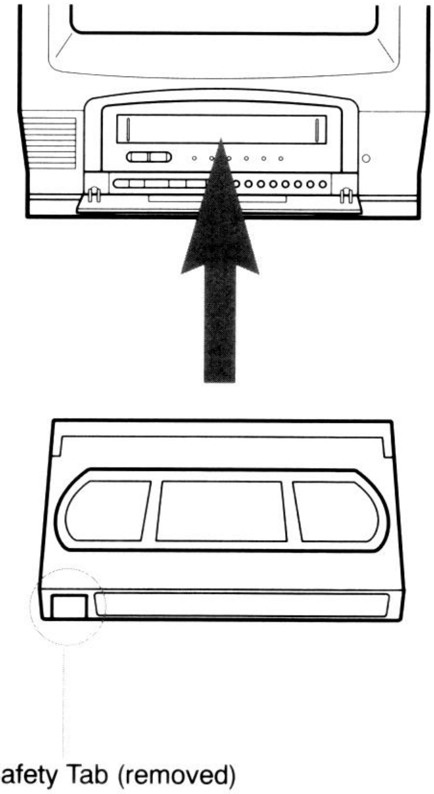
When a cassette without a safety tab is inserted, playback will start automatically.
This eliminates the need for pressing the **PLAY** button.

1. Inserting a cassette automatically switches on the power. (Auto Power-on)
2. The set starts playback automatically. (Auto Playback)
3. At the end of the tape, the tape automatically rewinds to the beginning. (Auto Rewind)
4. The cassette is ejected automatically when the tape has finished rewinding. (Auto Eject)
5. The TV will shut itself OFF (AUTO-OFF).

NOTES:

- The cassette can be ejected when the **EJECT** button is pressed, even if the power is OFF. (Auto Power-off-eject).

- During the AUTO PLAYBACK, if the **STOP** or **REWIND** button is pressed the Auto power-off-eject will not function.



Safety Tab (removed)

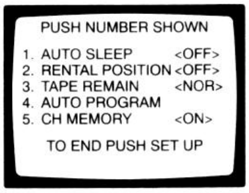
TRACKING CONTROL

When playback is started, the auto tracking function operates and adjusts automatically so the picture is optimized.
The AUTO TRK indicator will flash for 3 seconds.
If the AUTO TRACKING function does not operate, the tracking was probably last adjusted manually. Press the **A.TRACK** button on the Remote Control to activate AUTO TRACKING.
If there still is some picture noise or streaking you can adjust the TRACKING manually using the **UP/DOWN** buttons.

RENTAL POSITION

When playing back rental tapes, there will be some picture noise.
The **RENTAL POSITION ON** state activates a vertical enhancer, which can improve image detail.

1. Press the **SET UP** button.
   The on-screen display will appear.



```
PUSH NUMBER SHOWN
1. AUTO SLEEP        <OFF>
2. RENTAL POSITION <OFF>
3. TAPE REMAIN       <NOR>
4. AUTO PROGRAM
5. CH MEMORY          <ON>
   TO END PUSH SET UP
```

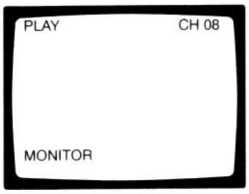
2. Press **2** to turn **RENTAL POSITION ON**.

<OFF>
↕
<ON>

3. When the playback is finished, turn **RENTAL POSITION OFF**.

TO VIEW TV PROGRAM DURING PLAYBACK

Press the **CLR/MON**(MONITOR) button.



```
PLAY                    CH 08


MONITOR
```

The TV will return to normal TV reception mode, and the on-screen display will appear.

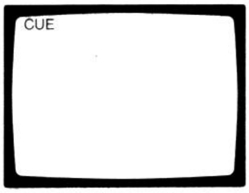
You can change the channel at any time. To return to the playback view, press the **CLR/MON**(MONITOR) button again.

PLAYBACK VARIATIONS

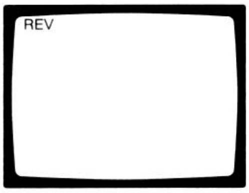
- To playback 15 times faster than normal (EP recorded tape).

During playback...

- Press the **FF** or **REW** button once.



CUE mode



REVIEW mode

- When you have reached the desired point on the tape, press the **PLAY** button to return to normal playback speed.

- To playback 21 times faster than normal (EP recorded tape).

During playback...

- Press the **FF** or **REW** button continuously and hold.
- When you have reached the desired point on the tape, release the **FF** or **REW** button to return to normal playback speed.

F/R SEARCH FUNCTION (Fast Response Picture Search)

During the stop mode...

1. Press the **FF** or **REW** button.
2. Press the **FF** or **REW** button again and hold so you can check what is on the tape.
3. Release the **FF** or **REW** button to return to the regular Fast Forward or Rewind mode.
4. When you have reached the desired point on the tape, press the **PLAY** button to return to normal playback speed.

STILL PICTURE VIEWING

During playback...

- Press the **PAUSE/STILL** button to stop the picture on the screen during playback. **STILL** will appear on the screen.
- To continue normal playback, press the **PLAY** button.

NOTES:

- No sound will accompany the picture, which may be unstable or suffer from noise.

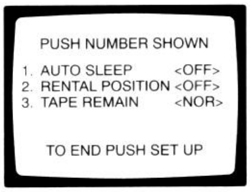
- If the TV is left in the PAUSE/STILL mode for more than about 5 minutes, the TV will automatically place itself in the STOP mode, to protect the tape and the video heads.

PLAYBACK VARIATIONS

REMAINING TIME DISPLAY

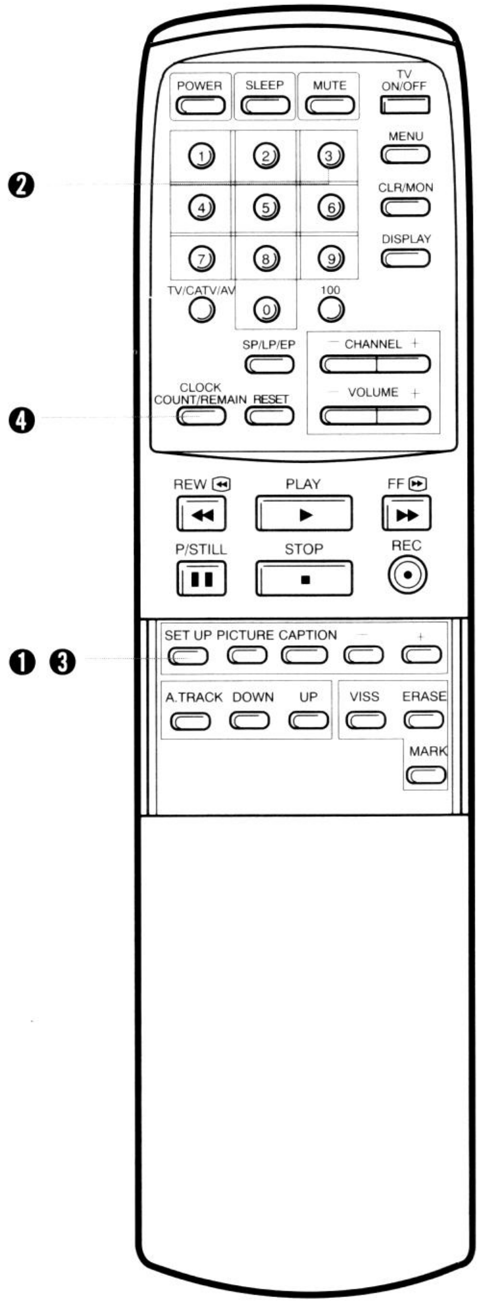
This function allows the time of the remaining tape to be displayed during recording or playback in counter mode.
This can only be operated in counter mode.

❶ Press the **SET UP** button.
The on-screen menu will appear.



PUSH NUMBER SHOWN
1. AUTO SLEEP <OFF>
2. RENTAL POSITION <OFF>
3. TAPE REMAIN <NOR>

TO END PUSH SET UP


❷
❹
❶ ❸
POWER
SLEEP
MUTE
TV ON/OFF
MENU
1
2
3
CLR/MON
4
5
6
DISPLAY
7
8
9
TV/CATV/AV
0
100
SP/LP/EP
— CHANNEL +
CLOCK COUNT/REMAIN
RESET
— VOLUME +
REW
PLAY
FF
P/STILL
STOP
REC
SET UP
PICTURE
CAPTION
—
+
A.TRACK DOWN
UP
VISS
ERASE
MARK

❷ Press 3.
Depending on the tape to be used, select **NOR** or **T-160**.

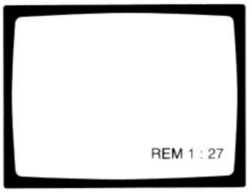
<T-160> Set to this position for using a T-160 or T-140 tape only.

↕

<NOR> For the others, set to this position.

❸ Press the **SET UP** button.
The on-screen menu will disappear.

❹ Press the **CLOCK COUNT/REMAIN** button during playback or recording.
When remaining time is displayed, **REM** is displayed on the screen.



REM 1 : 27

NOTES:

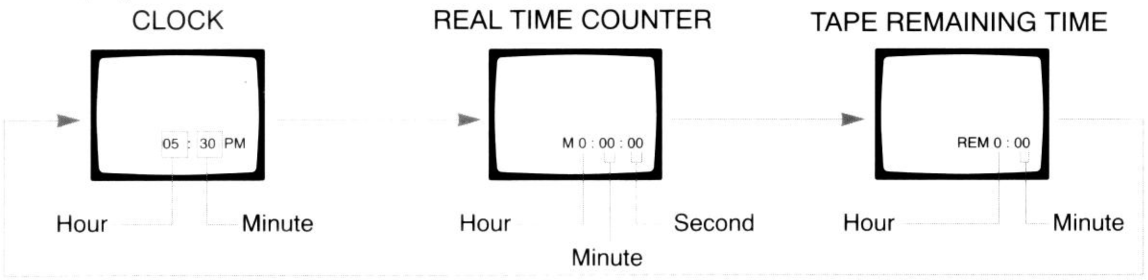
- The tape remaining time functions with T-20, 30, 40, 60, 80, 90, 100, 120, 140, 160, 180 tape only.
- When counting the remaining time, this function takes about 10 seconds (SP mode) or 30 seconds (EP mode) in the playing mode.
- The remaining time is counted by the recording mode (SP or EP) and has some allowance for tape tightness.

PLAYBACK VARIATIONS

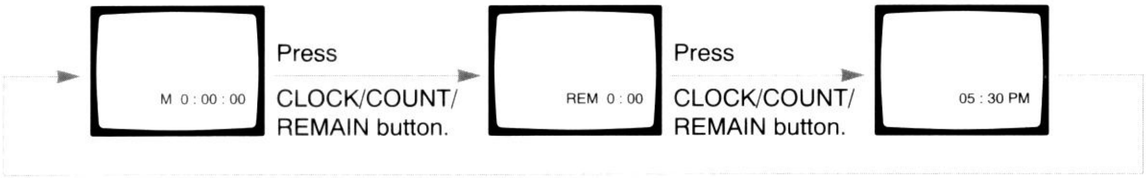
The tape counter indicates the tape travel time in hours, minute and seconds during recording and playback.

- **Press the CLOCK/COUNT/REMAIN button.**

The display switches each time the button is pressed.


CLOCK
REAL TIME COUNTER
TAPE REMAINING TIME
05 : 30 PM
M 0 : 00 : 00
REM 0 : 00
Hour
Minute
Hour
Minute
Second
Hour
Minute

- **Press the DISPLAY button twice.**


M 0 : 00 : 00
Press
CLOCK/COUNT/
REMAIN button.
REM 0 : 00
Press
CLOCK/COUNT/
REMAIN button.
05 : 30 PM

NOTES :

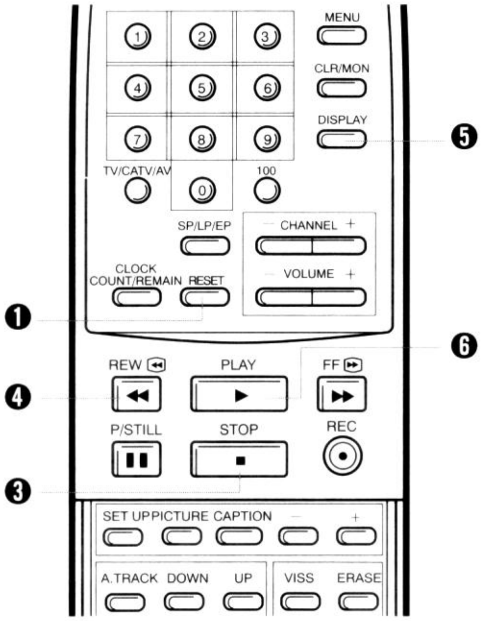
- Counter changes to clock when the cassette is ejected.
- The real time counter does not operate when nothing is recorded on the tape.

COUNTER MEMORY FUNCTION

It works with the counter to return to a particular spot on the cassette after playing. The memory works with the Counter to return to a particular spot on the cassette.

The memory is designed to stop when the counter reaches **M 0:00:00** during rewind (REW).

This feature is especially helpful when editing a recording.


1
2
3
MENU
4
5
6
CLR/MON
7
8
9
DISPLAY
❺
TV/CATV/AV
0
100
SP/LP/EP
CHANNEL
CLOCK
COUNT/REMAIN
RESET
VOLUME
❶
❻
REW
PLAY
FF
❹
P/STILL
STOP
REC
❸
SET UP
PICTURE
CAPTION
A.TRACK
DOWN
UP
VISS
ERASE

❶ Press the **DISPLAY** button twice to call up the counter. Press **RESET** at the point you want to start playback.

❷ Continue to play.

❸ Press the **STOP** button when completed.

❹ Press the **REW** button.
The tape will rewind to the preselected point approximately at **M 0:00:00**.

❺ Press the **DISPLAY** button.
The on-screen display will disappear.

❻ Press the **PLAY** button to play the tape.

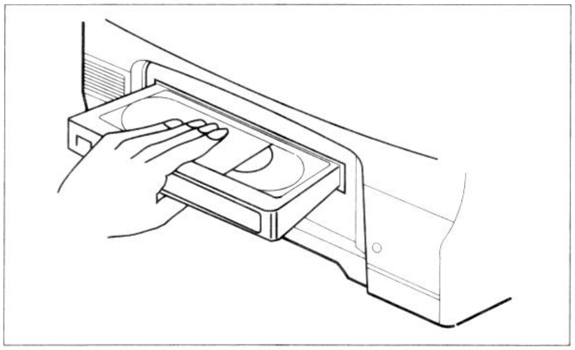
This function can only be operated in counter mode.

RECORDING

❶ Insert the cassette so the transparent window is up and the arrow toward the Cassette Loading Door until the unit starts to pull the cassette into opening.

NOTES:

- When the cassette is loaded, the power is turned on automatically.
- Be sure to check that the safety tab is not missing. If it is removed, the unit goes into playback mode automatically.



❷ Set TV/CATV/AV selector to TV or CATV (depending on your signal source).

❸ Press **TAPE SPEED** button to select the recording speed.
SP(Standard Play), LP(Long Play), EP (Extended Play)

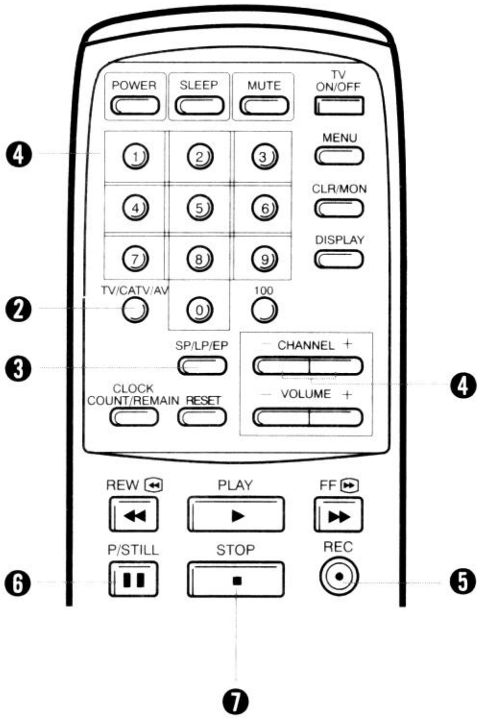
❹ CHANNEL SELECTION
Select a desired channel by using the **CHANNEL UP(+)/DOWN(-)** buttons or numerical buttons.

❺ RECORDING
Press the **RECORD** button on the Remote Control, or the **RECORD** and **PLAY** buttons on the Console.
The RECORD indicator will light.

❻ TO TEMPORARILY STOP RECORDING
Press the **PAUSE/STILL** button to stop the tape temporarily.
In pause mode, you can change channels by using the **CHANNEL UP(+)/DOWN(-)** buttons.
When you want to continue recording, press the **PAUSE/STILL** button again.

After 5 minutes in PAUSE, the VCR will automatically change to STOP function to protect the tape and video heads.

❼ TO STOP RECORDING
Press the **STOP** button to stop recording.
If the tape reaches the end before **STOP** button is pressed, the tape will stop automatically and rewind to the beginning.


POWER
SLEEP
MUTE
TV ON/OFF
MENU
1
2
3
4
5
6
7
8
9
CLR/MON
DISPLAY
TV/CATV/AV
0
100
SP/LP/EP
CHANNEL
VOLUME
CLOCK
COUNT/REMAIN
RESET
REW
PLAY
FF
P/STILL
STOP
REC
❹
❷
❸
❹
❻
❺
❼

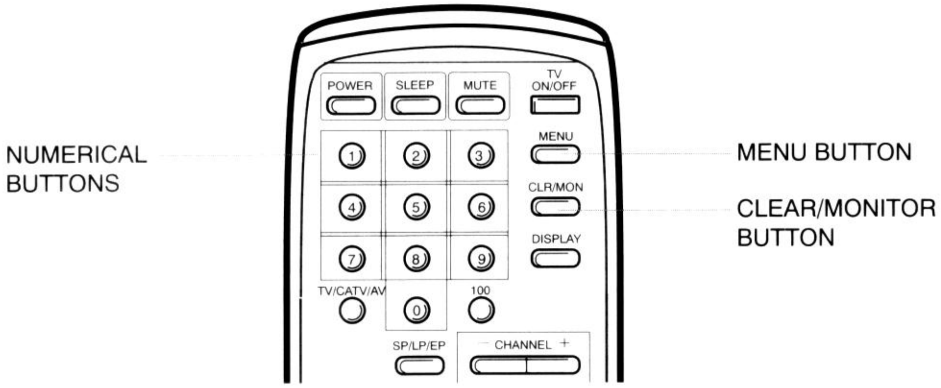
SETTING THE PROGRAM RECORDING TIMER

This set can be programmed to automatically record up to 8 programs within a 1 year period. The channels to be recorded and the start and end times need to be entered into the timer.

Things to know before starting

- While you are programming the timer, the MENU display on-screen will prompt you through each step.
- You can correct an error in the program any time before the last step, by pressing the **CLEAR** button repeatedly until the digit to be corrected flashes, and then by entering the corrections.

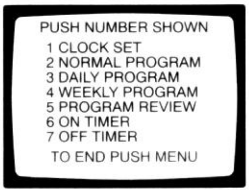
PARAGRAPH REFERENCES


NUMERICAL BUTTONS
POWER
SLEEP
MUTE
TV ON/OFF
MENU
CLR/MON
DISPLAY
1
2
3
4
5
6
7
8
9
TV/CATV/AV
0
100
SP/LP/EP
– CHANNEL +
MENU BUTTON
CLEAR/MONITOR BUTTON

JUST-FIT RECORDING

If you select the AUTO SPEED mode in step 6 below, the VCR will automatically determine how much tape is left and switch speeds accordingly. The AUTO SPEED mode starts recording at SP speed, but if it determines there isn't enough tape left to complete the programmed recording, it switches over to EP speed (Just-Fit Recording Feature).

❶ Press the **MENU** button.
The MENU, as illustrated, will appear on-screen.



PUSH NUMBER SHOWN
1 CLOCK SET
2 NORMAL PROGRAM
3 DAILY PROGRAM
4 WEEKLY PROGRAM
5 PROGRAM REVIEW
6 ON TIMER
7 OFF TIMER
TO END PUSH MENU

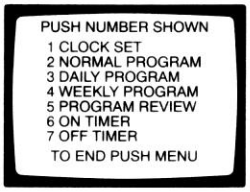
SETTING THE PROGRAM RECORDING TIMER

❷ Press **2** to enter a **NORMAL** program, **3** to enter a **DAILY** program, or **4** to enter a **WEEKLY** program.

Normal event... for recording up to 8 programs on a single day or over many days within a 1 year period.

Weekly event... for recording up to 8 programs on a certain day of every week.

Daily event... for recording up to 8 programs at the same time(s), Monday through Friday.

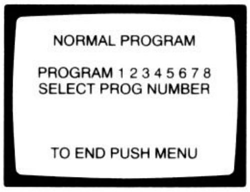


```
PUSH NUMBER SHOWN
 1 CLOCK SET
 2 NORMAL PROGRAM
 3 DAILY PROGRAM
 4 WEEKLY PROGRAM
 5 PROGRAM REVIEW
 6 ON TIMER
 7 OFF TIMER
  TO END PUSH MENU
```

NOTES:

- Any one of these program modes or any combination thereof (up to 8 programs in total) may be selected.
  A typical example of a **NORMAL** program is demonstrated below.
  The display will prompt you to select a Program Number.
- All 8 program numbers will be flashing because none of them have been used. If the timer has been programmed, numbers that have been programmed will not flash.

❸ Press a digit from **1** to **8** to select the program mode you want to program.

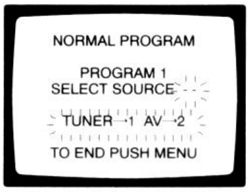


```
NORMAL PROGRAM

PROGRAM 1 2 3 4 5 6 7 8
SELECT PROG NUMBER


TO END PUSH MENU
```

❹ To record your TV program, select the **TUNER** by pressing **1**.
To record your external VCR program, select the **AV** by pressing **2**.



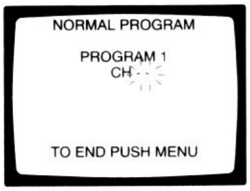
```
NORMAL PROGRAM

  PROGRAM 1
SELECT SOURCE
 TUNER→1  AV→2

TO END PUSH MENU
```

SETTING THE PROGRAM RECORDING TIMER

❺ Press two digits for the channel to be recorded. (for example, **0 4** for channel 4)

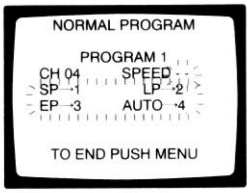


NORMAL PROGRAM

PROGRAM 1
CH - -

TO END PUSH MENU

❻ Press a digit from **1** to **4** to select the recording speed (for example, **1** for Standard Play, **2** for Long Play, **3** for Extended Play, **4** for Auto Speed).



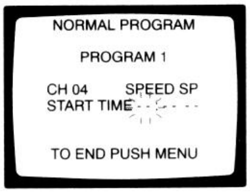
NORMAL PROGRAM

PROGRAM 1
CH 04 SPEED - -
SP→1 LP→2
EP→3 AUTO→4

TO END PUSH MENU

❼ Press four digits, two for the hour and two for the minute (for example, **0 6 0 0**) to set the starting time.

NOTE: Always press **0** before a single digit hour and minute.



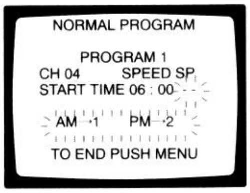
NORMAL PROGRAM

PROGRAM 1

CH 04 SPEED SP
START TIME - - : - -

TO END PUSH MENU

❽ Press **1** for **AM** or **2** for **PM**.



NORMAL PROGRAM

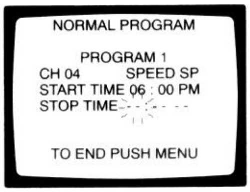
PROGRAM 1
CH 04 SPEED SP
START TIME 06 : 00 - -

AM→1 PM→2

TO END PUSH MENU

❾ Press four digits, two for the hour and two for the minute (for example, **0 7 0 0**) to set the stopping time.

NOTE: Always press **0** before a single digit hour and minute.



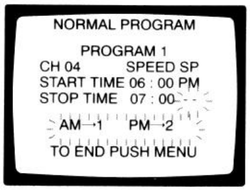
NORMAL PROGRAM

PROGRAM 1
CH 04 SPEED SP
START TIME 06 : 00 PM
STOP TIME - - : - -

TO END PUSH MENU

SETTING THE PROGRAM RECORDING TIMER

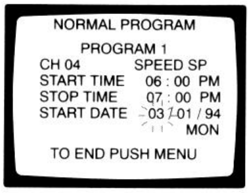
⑩ Press **1** for **AM** or **2** for **PM**.



```
NORMAL PROGRAM
  PROGRAM 1
CH 04        SPEED SP
START TIME 06 : 00 PM
STOP TIME  07 : 00 - -
  AM→1    PM→2
TO END PUSH MENU
```

---

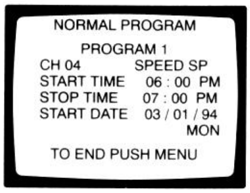
⑪ Press six digits, two for the start month and two for the start date, and two for the year (for example **0 3 0 1 9 4** to begin recording on March 1.1994).
The day of the week is displayed automatically.



```
NORMAL PROGRAM
  PROGRAM 1
CH 04          SPEED SP
START TIME   06 : 00  PM
STOP TIME    07 : 00  PM
START DATE   03 / 01 / 94
                     MON
TO END PUSH MENU
```

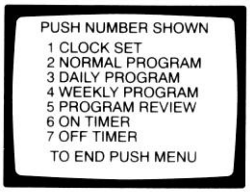
---

⑫ Press the **MENU** button to enter your program and return to the menu display.
Additional programs may be entered by repeating steps ②-⑫.



```
NORMAL PROGRAM
  PROGRAM 1
CH 04          SPEED SP
START TIME   06 : 00  PM
STOP TIME    07 : 00  PM
START DATE   03 / 01 / 94
                     MON
TO END PUSH MENU
```

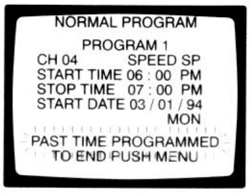
If the program preset time is past, the **PAST TIME PROGRAMMED** message will blink on the screen.
Press the **MENU** button.



```
PUSH NUMBER SHOWN
1 CLOCK SET
2 NORMAL PROGRAM
3 DAILY PROGRAM
4 WEEKLY PROGRAM
5 PROGRAM REVIEW
6 ON TIMER
7 OFF TIMER
TO END PUSH MENU
```

---

⑬ When completed, press the **POWER** button to turn the set off. The TIMER STAND-BY indicator will light up. If there is no tape in the VCR, the TIMER STAND-BY indicator will flash. Insert a tape in the VCR.



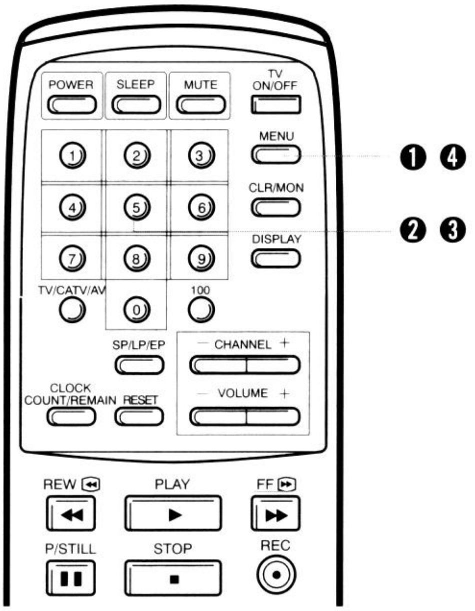
```
NORMAL PROGRAM
  PROGRAM 1
CH 04         SPEED SP
START TIME 06 : 00  PM
STOP TIME   07 : 00  PM
START DATE 03 / 01 / 94
                    MON
PAST TIME PROGRAMMED
TO END PUSH MENU
```

The programmable timer can be operated in the TV/VCR power off mode.
While the timer is operating, if you want to view the recording channel turn the TV on by pressing the **TV ON/OFF** button.

SETTING THE PROGRAM RECORDING TIMER

CHECKING THE TIMER PROGRAM

The program status can be checked whenever the TV/VCR is ON.


POWER
SLEEP
MUTE
TV ON/OFF
MENU
CLR/MON
DISPLAY
1
2
3
4
5
6
7
8
9
TV/CATV/AV
0
100
SP/LP/EP
— CHANNEL +
CLOCK COUNT/REMAIN
RESET
— VOLUME +
REW
PLAY
FF
P/STILL
STOP
REC
❶ ❹
❷ ❸

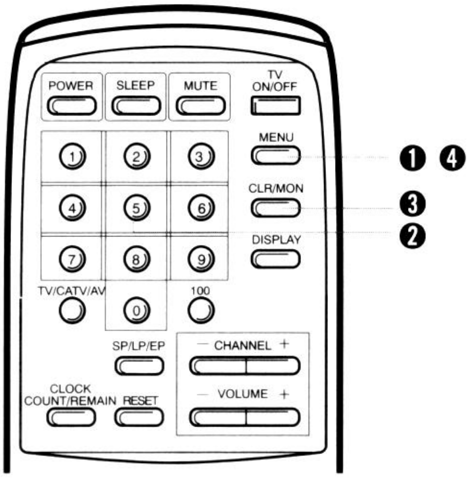
❶ Press **MENU** button.

❷ Press **5** to review the program (Program Review).

❸ Press **5** again if you want to review the next program.
When finished, press **5**, and the display returns to the original menu.

❹ To stop checking, press the **MENU** button. Press it again and the on-screen display will disappear.

ERASING A TIMER PROGRAM


POWER
SLEEP
MUTE
TV ON/OFF
MENU
CLR/MON
DISPLAY
1
2
3
4
5
6
7
8
9
TV/CATV/AV
0
100
SP/LP/EP
— CHANNEL +
CLOCK COUNT/REMAIN
RESET
— VOLUME +
❶ ❹
❸
❷

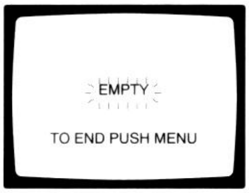
❶ Press the **MENU** button.

❷ Press **5** until the program you want to erase is displayed.

❸ Press the **CLEAR** button.

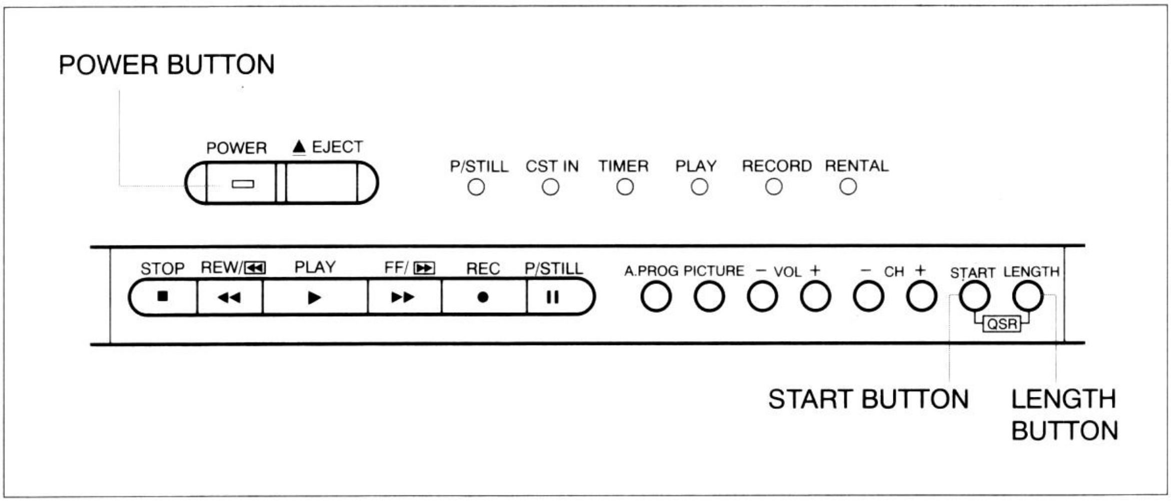
❹ When you are finished, press the **MENU** button.

NOTE: If you press **5** to review or **CLEAR** to erase in the menu mode, the message **EMPTY** will display for 3 seconds if there is no program in the timer.


EMPTY
TO END PUSH MENU

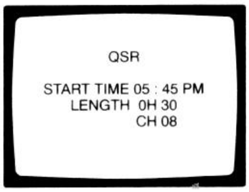
QUICK START RECORDING (QSR)

Quick Start Recording allows you to make simplified timer recording without using the program timer. There are two simplified methods, as explained below. Be sure that clock is set to the correct time before you activate QSR.


POWER BUTTON
POWER
▲ EJECT
P/STILL
CST IN
TIMER
PLAY
RECORD
RENTAL
STOP
REW/◀◀
PLAY
FF/▶▶
REC
P/STILL
A.PROG
PICTURE
– VOL +
– CH +
START
LENGTH
QSR
START BUTTON
LENGTH BUTTON

Immediate-Start QSR

1. Insert the cassette.
2. Adjust the TV/CATV/AV selector appropriately.
3. Press the **TAPE SPEED** button to select the desired speed.
4. Select the appropriate channel.
5. Press the **LENGTH** button to set the recording time on the screen. For each press of the **LENGTH** button, the time length changes as in the chart below, extending the recording time 30 minutes.



QSR

START TIME 05 : 45 PM
LENGTH 0H 30
CH 08

LENGTH Button	TIMER Display (QSR time)
1 press	0H00
2 presses	0H30 (30 min)
3 presses	1H00 (1 hour)
∫	∫
19 presses	9H00
20 presses	0H00

QUICK START RECORDING

Delayed-Start QSR

To quickly preset the starting time (in 30-minute increments) and the length of recording (in 30-minute increments) :

1. Perform steps 1 - 4 of Immediate-Start QSR.
2. Press **START** button repeatedly to preset the start time.
   EXAMPLE: CURRENT TIME 5:45 PM

START Button	Timer display (QSR START TIME)
1 press	PM 5 : 45
2 presses	PM 6 : 00
3 presses	PM 6 : 30
∫	∫

3. Press the **LENGTH** button to preset the length of recording.
4. Press the **POWER** button to turn off the set.

TO EXTEND THE RECORDING TIME

- The recording time can be extended anytime by pressing the **LENGTH** button.
- Subsequent presses result in advancing the recording time in 30-minute increments.

TO CLEAR THE QSR SETTING

1. You can clear QSR program by pressing the **LENGTH** button until the display reads **0H00**.
2. Press the **POWER** button to stop the set during QSR operation.

NOTES:

- When the recording time ends the TV/VCR will switch itself off.
- During QSR, you cannot change the channel of the TV.

VHS INDEX SEARCH SYSTEM (VISS)

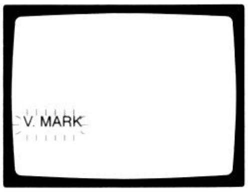
The VHS INDEX SEARCH SYSTEM enables you to locate the beginning of any recording on any video tape with the VHS INDEX SEARCH SYSTEM.
Whenever a recording is started, an invisible INDEX mark is recorded on the tape. This feature makes use of VISS signals to search out a specified tape segment and begin playback automatically.

Things to know before starting

- VISS signals cannot be marked on cassettes without safety tabs.
- The VISS signals can be marked only during playback and recording modes.

MARKING VISS SIGNALS

A VISS signal is automatically marked on the tape when a recording starts. The **V.MARK** indicator flashes for 3 seconds as a reminder.

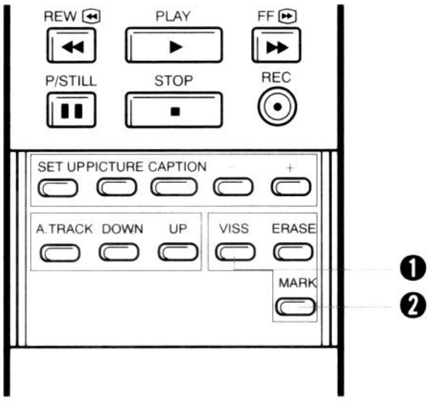


MARKING VISS SIGNALS MANUALLY

The VISS mark can be placed on the tape by pressing the **VISS** and **MARK** buttons, in that order, during playback or recording.

❶ Press the **VISS** button once while a tape is playing or recording. The **VISS 00** indicator will appear.

❷ Press the **MARK** button at the point where a VISS signal is to be marked. The **V.MARK** indicator will flash for 3 seconds.



VHS INDEX SEARCH SYSTEM

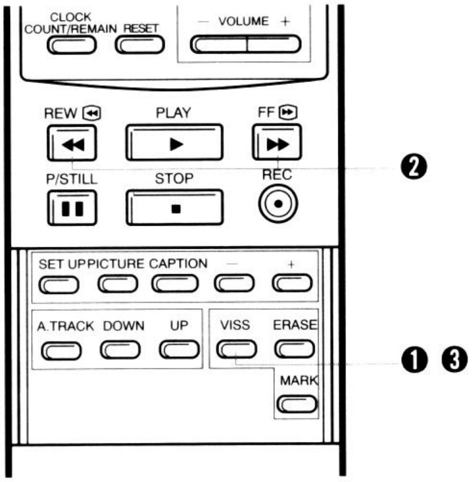
PLAYING BACK THE BEGINNING OF EACH PROGRAM IN SEQUENCE (VISS SCAN)

➊ Press the **VISS** button once, while a tape is playing. The **VISS 00** indicator will appear on the TV screen.

➋ Press either the **FF** or **REW** buttons and VISS will start. The indicator appears simultaneously during scanning. The tape will be rewound or rapidly advanced to the next signal marked.

The tape will be played back for approximately 5 seconds, and then rewound or rapidly advanced to the next VISS signal.

Every time a VISS signal is detected and playback begins, the displayed VISS scan number appears. (**V.SCAN 00**)

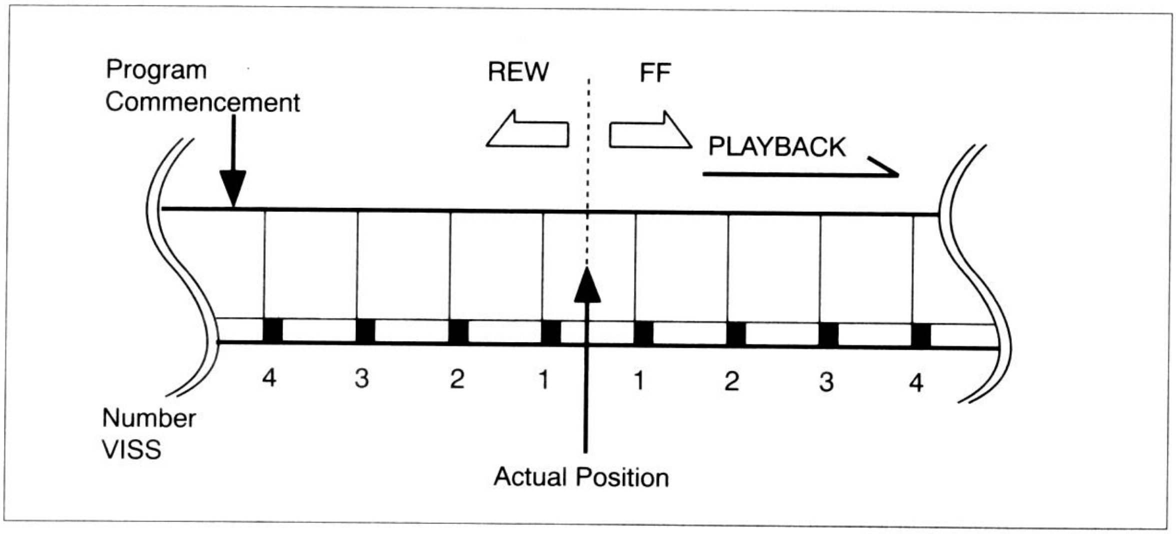

CLOCK
COUNT/REMAIN
RESET
— VOLUME +
REW
PLAY
FF
P/STILL
STOP
REC
SET UP
PICTURE
CAPTION
—
+
A.TRACK
DOWN
UP
VISS
ERASE
MARK
➋
➊ ➌

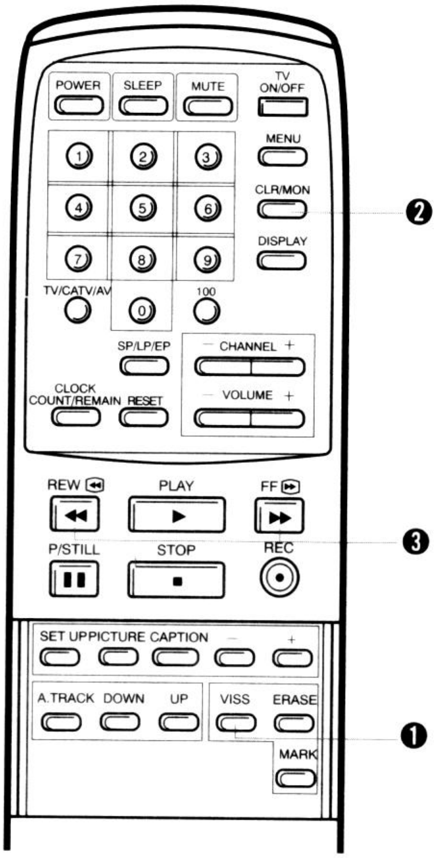
➌ At the desired program, press the **VISS** button. Normal playback of that program will begin.

VHS INDEX SEARCH SYSTEM

LOCATING THE DESIRED PROGRAM-VISS SEARCH

You can locate the desired program and play it back automatically by designating the number of VISS signals to skip.


Program Commencement
REW
FF
PLAYBACK
4
3
2
1
1
2
3
4
Number VISS
Actual Position


POWER
SLEEP
MUTE
TV ON/OFF
MENU
CLR/MON
DISPLAY
TV/CATV/AV
100
SP/LP/EP
CHANNEL
VOLUME
CLOCK COUNT/REMAIN
RESET
REW
PLAY
FF
P/STILL
STOP
REC
SET UP
PICTURE
CAPTION
A.TRACK
DOWN
UP
VISS
ERASE
MARK
❶
❷
❸

❶ Press the **VISS** button once during playback.
The **VISS 00** indicator appears.

❷ Enter the number of VISS codes to be passed on the way to the VISS destination from the present tape location.

❸ Press either the **FF** or **REW** button.
The **V.SEARCH 00** appears on the screen.
When the desired index is found, playback begins automatically.

ERASING VISS SIGNALS

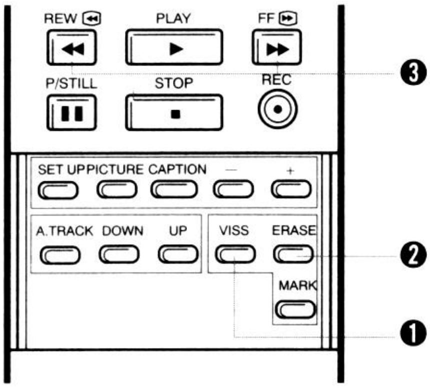
You can erase unnecessary VISS signals.

❶ Press the **VISS** button during playback.
The **VISS 00** indicator appears.

❷ Press the **ERASE** button. The **V.ERASE** appears on the screen.

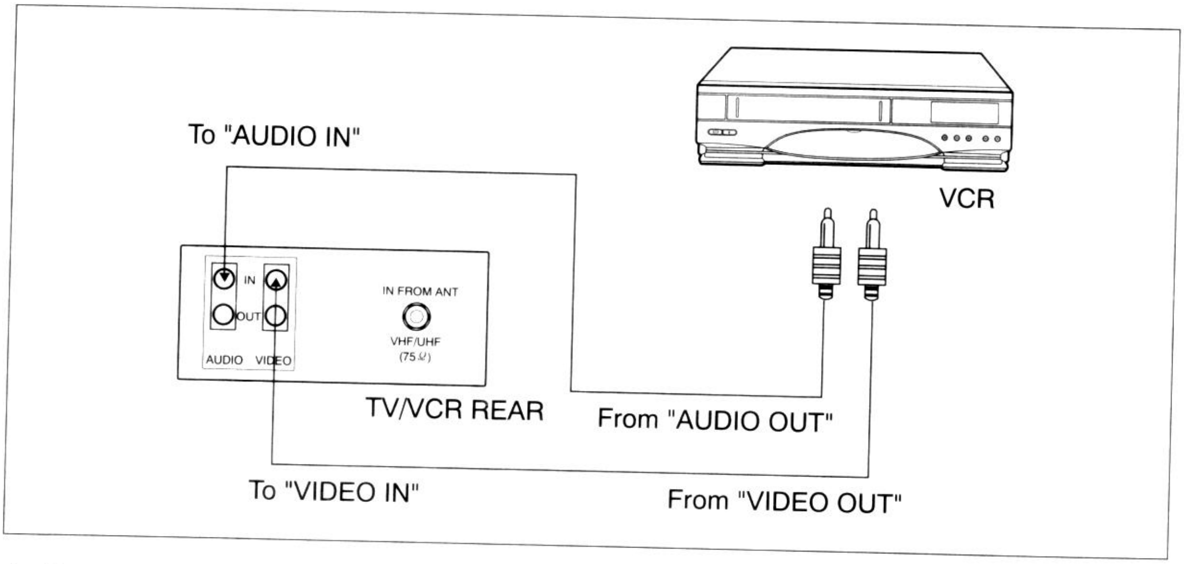
❸ Press either the **FF** or **REW** button.
The first subsequent VISS signal is erased and the tape is played back.

NOTE: While a VISS signal is being erased, the recorded sound will not be heard but it will still be there.


REW
PLAY
FF
P/STILL
STOP
REC
SET UP
PICTURE
CAPTION
—
+
A.TRACK
DOWN
UP
VISS
ERASE
MARK
❸
❷
❶

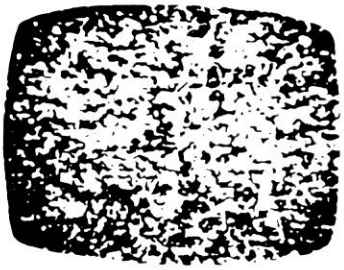
VCR TO TV/VCR DUBBING

If you wish to exchange or copy some of your friend's favorite home recordings, the following instructions can be used to make a VCR to TV/VCR connection.


To "AUDIO IN"
VCR
IN
OUT
AUDIO
VIDEO
IN FROM ANT
VHF/UHF
(75Ω)
TV/VCR REAR
From "AUDIO OUT"
To "VIDEO IN"
From "VIDEO OUT"

1. Connect the VIDEO OUT/AUDIO OUT of the VCR to the VIDEO IN/AUDIO IN of TV/VCR.
2. Set the TV/CATV/AV selector to AV.
3. Play the tape on the VCR and record it on TV/VCR.

VIDEO HEAD CLEANING



- Picture playback may become blurred or interrupted even though the TV program received is clear.
- Dirt built-up on the head after long periods of use can cause this.
- This set has a built-in automatic head cleaner, and if high quality video tapes are used regularly, the video heads should not normally require cleaning. However, playing an old or damaged tape may clog the heads.
- To clean the heads, obtain a head cleaning tape from your local video dealer. Be sure to follow the instructions that come with the cleaning tape, as excessive cleaning can shorten head life.

TROUBLESHOOTING

Before making a service call, please check the items below. They include several common faults which you can correct, making a service call unnecessary.

IN TV RECEPTION

SYMPTOMS	CHECK POINTS
No picture or sound	• Make sure the set is plugged into a working AC outlet. • Check that the POWER button is set to ON. • Check the antenna - its wires, connections and direction.
Picture OK, sound poor	• Check the antenna - its wires, connections and direction. • Adjust the sound.
Sound OK, no picture	• Try another channel. • Adjust the picture.
Picture weak or blurred	• Check the antenna - its wires, connections and direction. • Adjust the picture. • Adjust contrast control.
Picture rolls vertically	• Check the antenna - its wires, connections and direction.
"Ghosts"-multiple images	• Check the antenna - its wires, connections and direction. • Install a directional antenna
Wrong colors or no color	• Adjust color and tint control.
No response to button pressing	• Press the buttons carefully again-if no response, unplug the set, then plug it in and try again.
No response to Remote Control	• Check the polarity of the batteries. • Replace the batteries.

IN VCR OPERATION

SYMPTOMS	CHECK POINTS
Video cassette tape insertion is impossible.	• Insert the cassette with the window side up and the safety tab facing you. • Check for a video tape already in the VCR.
No operation when operation buttons are pressed.	• Cancel the set STOP TIME.
Auto play function doesn't work TV programs can't be recorded.	• Check that safety tab on the video cassette tape is removed. • Make sure that the receiving channel of the set is properly tuned. • Make sure that the safety tab on the video cassette tape is still intact. • Check the antenna - its wires, connections and direction.
Timer recording can't be performed...	• Make sure the recording start/stop time is correct. • If there is a power interruption before or during a Timer Recording, the Timer will lose its preset time memory and the Timer Recording will not be performed.
There is no picture in playback picture, or the playback picture in noisy or contains streaks.	• Check that the POWER button is set to ON. • Check that the video cassette tape is recorded. • Check the TRACKING CONTROL (Noise streaks only).
VCR doesn't operate	• Reconnect the Power Plug to an AC outlet. Reset programs. (This is caused by a POWER interruption.) • Check that the START TIME is set.
Video cassette tape was inserted incorrectly	• Wait a few seconds. The video cassette tape should eject itself. • If it does not operate normally in spite of repeating the above check, please contact your local service center.

GOLDSTAR
CONSUMER LIMITED WARRANTY

Goldstar U.S.A., Inc. will repair or at its option replace, without charge, your product which proves to be defective in material or workmanship under normal use, during the warranty period listed below from the date of original purchase. This warranty is good only to the original purchaser of the product during the warranty period as long as it is in the U.S. including Alaska, Hawaii and U.S. Territories.

WARRANTY PERIOD

ITEM	LABOR	PARTS	To obtain Service
Picture Tube 2 yrs	90 days	1 year	Carry-In : 21" and under IN-Home: 25" and over

No other express warranty is applicable to this product. THE DURATION OF ANY IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY, IS LIMITED TO THE DURATION OF THE EXPRESS WARRANTY HEREIN. GOLDSTAR SHALL NOT BE LIABLE FOR THE LOSS OF THE USE OF THE PRODUCT, INCONVENIENCE, LOSS OR ANY OTHER DAMAGES, DIRECT OR CONSEQUENTIAL, ARISING OUT OF THE USE OF, OR INABILITY TO USE, THIS PRODUCT OR FOR ANY BREACH OF ANY EXPRESS OR IMPLIED WARRANTY, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY APPLICABLE TO THIS PRODUCT.

Some states do not allow the exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts, so these limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

THE ABOVE WARRANTY DOES NOT APPLY

1. To damages or problems which result from delivery or improper installation.
2. To damages or problems which result from misuse, abuse, accident, alteration, or incorrect electrical current or voltage.
3. To service calls, which do not involve defective workmanship or material, such as head cleaning and explaining operations and therefore this cost is paid by the consumer.

REQUIREMENTS TO MAINTAIN WARRANTY COVERAGE

To Prove Warranty Coverage; – Retain your Bill of Sale to prove date of purchase. A copy of your Bill of Sale must be surrendered at the time warranty service is proved.

Product Registration Card: – It is helpful to complete at least your name, address, phone, model & serial numbers and return it. This will enable Goldstar to assist you in the future should you lose your Bill of Sale, your unit is stolen, or should special modifications be necessary.

To locate an Authorized Service Center Location: – Call 800-243-0000, 24 hrs a day, 7 days a week, Please have your product type (TV, VCR) and zip code available.

To obtain product assistance or file a complaint: – Call 1-800-222-6457 Monday - Friday 8am - 5pm CST Push menu code for Customer Service

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